Clarke™

air

SILENT AIR COMPRESSOR

MODEL NO: SHHHAIR 30/9

PART NO: 2320865

OPERATION & MAINTENANCE INSTRUCTIONS

CE

0309

INTRODUCTION

Thank you for purchasing this CLARKE Silent Air Compressor.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

PARTS AND SERVICING

For Parts & Servicing, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

PARTS & SERVICE TEL: 020 8988 7400
PARTS & SERVICE FAX: 020 8558 3622
or e-mail as follows:
PARTS: Parts@clarkeinternational.com
SERVICE: Service@clarkeinternational.com

SAFETY PRECAUTIONS

WARNING: AS WITH ALL MACHINERY, THERE ARE CERTAIN HAZARDS INVOLVED WITH THEIR OPERATION AND USE. EXERCISING RESPECT AND CAUTION WILL CONSIDERABLY LESSEN THE RISK OF PERSONAL INJURY. HOWEVER, IF NORMAL SAFETY PRECAUTIONS ARE OVERLOOKED, OR IGNORED, PERSONAL INJURY TO THE OPERATOR MAY RESULT.

1. Compressed air is dangerous, NEVER direct a jet of air at people or animals, and NEVER discharge compressed air against the skin.
2. DO NOT operate your compressor with any guards removed.
3. Electrical or mechanical repairs should only be carried out by a qualified engineer. If problems occur, contact your Clarke dealer.
4. Before carrying out any maintenance, ensure the pressure is expelled from the air receiver, and the machine is disconnected from the mains supply.
5. DO NOT leave pressure in the receiver overnight, or when transporting.
6. DO NOT adjust, or tamper with the safety valves. The maximum pressure is factory set, and clearly marked on the machine.
7. DO NOT operate in wet or damp conditions. Keep the machine dry at all times. Similarly, a clean atmosphere will ensure efficient operation. Do not use in dusty or otherwise dirty locations.
8. Some of the metal parts can become quite hot during operation. Take care not to touch these until the machine has cooled down.
9. Always adjust the pressure regulator to the recommended setting for the particular spray gun or tool being used.
10. When spraying flammable materials e.g. cellulose paint, ensure that there is adequate ventilation and keep clear of any possible source of ignition.
11. Protect yourself. Think carefully about any potential hazards which may be created by using the air compressor and use the appropriate protection. e.g. Goggles will protect your eyes from flying particles. Face masks will protect you against paint spray and/or fumes.
12. Before spraying any material always consult paint manufacturers instructions for safety and usage.
13. Do not exert any strain on electrical cables and ensure that air hoses are not angled or wrapped around machinery etc.
14. When disconnecting air hoses or other equipment from your compressor ensure that the air supply is turned off at the machine outlet and vent all pressurised air from within the machine and other equipment attached to it.
15. Make sure that children and animals are kept well away from the compressor and any equipment attached to it.
16. Always ensure that all individuals using the compressor have read and fully understand these Operating Instructions.
17. Ensure that any equipment or tool used in conjunction with your compressor, has a safety working pressure exceeding that of the machine.

ELECTRICAL CONNECTIONS

Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or a suitably fused isolator switch.

WARNING: THIS APPLIANCE MUST BE EARTHED

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

Green & Yellow	-	Earth
Blue	-	Neutral
Brown	-	Live

- Connect GREEN & YELLOW cord to terminal marked with a letter "E" or Earth symbol " ⏚ " or coloured GREEN or GREEN & YELLOW.
- Connect BROWN cord to terminal marked with a letter "L" or coloured RED.
- Connect BLUE cord to terminal marked with a letter "N" or coloured BLACK.

If this appliance is fitted with a plug which is moulded onto the electric cable (i.e. non-rewireable) please note:

1. The plug must be thrown away if it is cut from the electric cable. There is a danger of electric shock if it is subsequently inserted into a socket outlet.
2. Never use the plug without the fuse cover fitted.
3. When replacing a detachable fuse carrier, ensure the correct replacement is used (as indicated by marking or colour code).
4. Replacement fuse covers can be obtained from your local dealer or most electrical stockists.

FUSE RATING

The fuse in the plug must be replaced with one of the same rating (13 amps) and this replacement must be ASTA approved to BS1362.

If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself.

PREPARING FOR USE

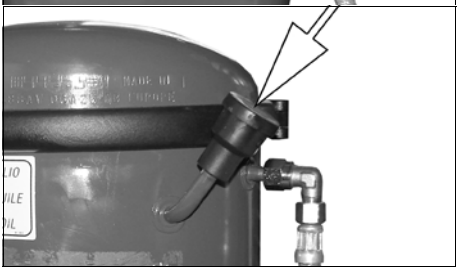
Before connecting your compressor to the mains supply, check the following:-

- Firstly, ensure the compressor is on level ground. Do not allow it to run if it is standing on an incline.
- Check also that the mains voltage corresponds with that shown on the data label on the side of the compressor.
- The ON/OFF switch is in the OFF position.

FITTING THE INLET FILTER

1. Remove the cap from the top of the air inlet tube.

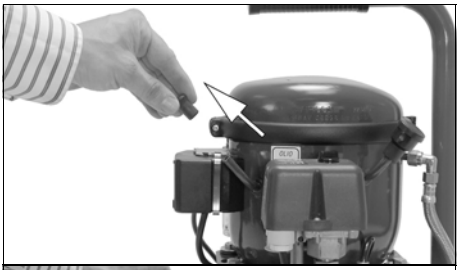
2. Push the air inlet filter supplied securely on to the tube.



ADDING OIL

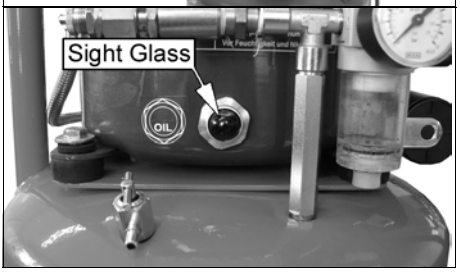
The compressor is supplied without any oil inside.

3. Remove the oil cap from the top of the oil filler tube.



4. Pour the oil into the oil filler tube using the funnel on the bottle, then replace the oil cap.
   - Only use Clarke synthetic compressor oil, available from your Clarke dealer (Part No. 3050795).

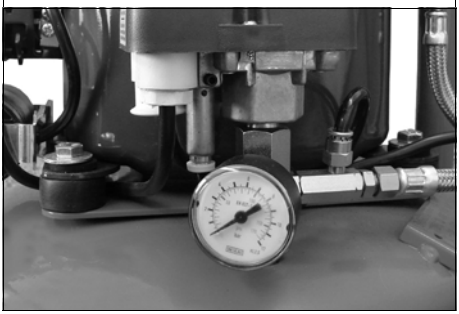
5. Make sure that the oil level is half way up the oil sight glass



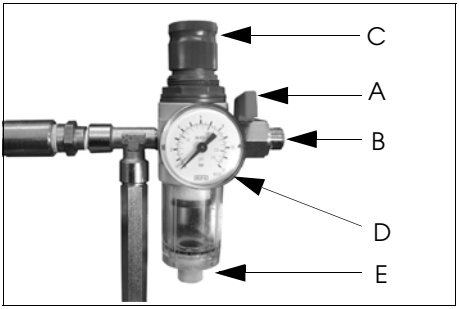
SWITCHING THE AIR COMPRESSOR ON

1. To start the compressor, turn the ON/OFF switch to the 'I' (ON) position - the motor should start immediately.

NOTE: If the motor fails to start immediately, the air receiver may already be full of air. Check the tank pressure gauge (shown on the right). If you release air, by opening the air outlet tap, the motor will start automatically once the cut-in pressure is reached.



2. Allow the compressor to run for 10 - 15 seconds, with the air outlet tap, (A) open.
   - This will distribute the lubricating oil.
3. Close the outlet tap and connect a suitable air hose to the filter/ regulator outlet (B). Connect the other end to the equipment to be used.



4. Check the safety valve by pulling on the ring shown, air should hiss out when pulled.

5. Adjust the pressure regulator.
    - To do this, lift the pressure regulator knob (C), and turn it clockwise to increase the pressure, anticlockwise to decrease the pressure. The pressure is shown on the outlet gauge, (D).
    - To lock the pressure regulator knob, push the pressure regulator knob down until it clicks into place.

IMPORTANT: Always refer to the accessory manufacturers recommendations for optimum operating pressures for their equipment.

6. With operating pressure set, open the air outlet tap.

NOTE: If the machine pumps continuously without cutting out then the compressor is too small for the application/tool being used, and damage may result. Consult your Clarke dealer.

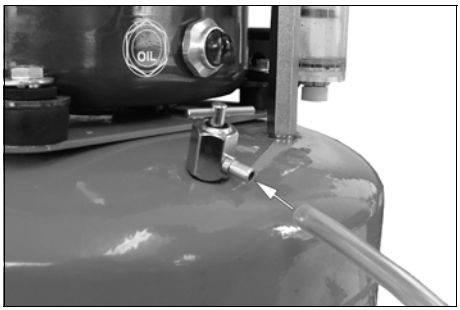
NOTE: DO NOT exceed the duty cycle for the machine (see Specifications).

SHUTTING DOWN THE COMPRESSOR

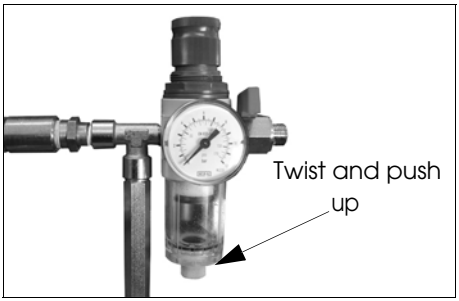
1. To shut off the compressor, simply turn the ON/OFF switch to the O (OFF) position.
2. Close the air outlet tap and trigger the equipment (spray gun, air tool etc.) to release air from the air hose before disconnecting the hose from the machine.
3. Before transporting your compressor or when leaving overnight, expel all air from the receiver by opening the vent valve.

DRAINING THE RESERVOIR

1. Pressurise the reservoir slightly and then turn the compressor off.
2. Attach the small hose supplied to the vent valve as shown.
3. Take the compressor to the sink and place the free end of the small hose in the sink.
4. Tilt the compressor forward slightly and slowly open the vent valve.



5. When the resevoir has been drained, re-tighten the vent valve and remove the hose.
6. Drain any condensate that may have accumulated in the air outlet filter, by twisting and pushing the valve upwards.



TROUBLESHOOTING

	PROBABLE CAUSE	REMEDY
The compressor will not start, or stops and will not start again	Bad connections	Check the electrical connections
	Blown fuse	Replace fuse
	Overload cutout switch has tripped	Wait 25-20 mins before attempting to restart
Compressor does not start	Air receiver charged	Open drain valve to expel air. Compressor should start again when pressure reduces to approx 95 psi.
The compressor does not reach the set pressure and overheats easily	Inlet Air Filter is blocked NOTE: It is also possible that you are trying to use more air than the compressor is capable of delivering	Renew oil filler/air Filter plug
Air leaking from the pressure switch valve when the compressor is not running	Faulty non-return valve	First drain the receiver completely of air. Renew the non-return valve
Air pressure from the regulator will not adjust	The diaphragm within the regulator body is broken	Replace regulator
Compressor operating, but no air from outlet	Inlet air filter blocked	Renew oil filler/air Filter plug
	Pressure regulator closed	Turn Regulator clockwise to set required pressure
	Drain valve open	Close vent valve
	Bleed pipe (from Pressure Switch to non-return valve) broken or disconnected	Reconnect or replace bleed pipe

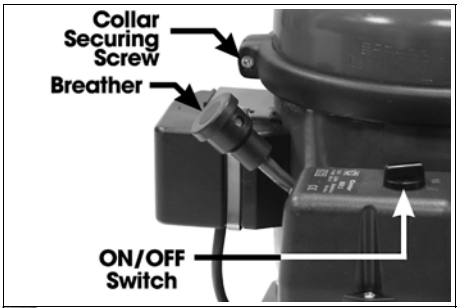
MAINTENANCE

	Daily	Once a Month	Once a Year
Check the oil level, See "Adding Oil" on page 6.	X		
Drain the water collected in the air outlet filter. See "Draining the reservoir" on page 9.	X		
Remove the condensate that has collected in the air tank. See "Draining the reservoir" on page 9.	X		
Once a month check the compressor for loose connections, wear, etc.		X	
Clean the compressor with a soft cloth.		X	
Check the safety valve pulling the ring gently when there is pressure in the tank.		X	
Total replacement of oil See "Drain and replace the oil" on page 11.			X

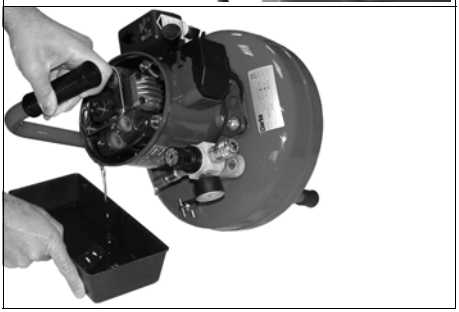
DRAIN AND REPLACE THE OIL

Drain and replace the oil annually, as follows:

1. Loosen the collar securing screw and remove the collar.
2. Pull off the head, complete with sealing ring.



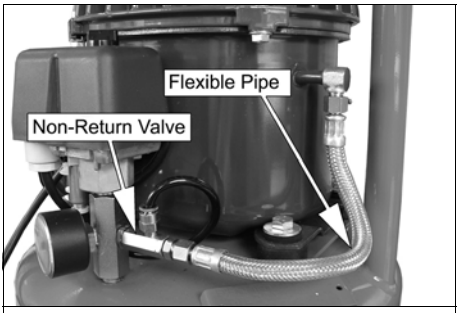
3. Tilt the compressor carefully on to its side, so that the oil is drained into a suitable container.
   - Dispose of the oil according to local regulations.
4. Reassemble the head ensuring the sealing ring is in perfect condition and is located correctly.



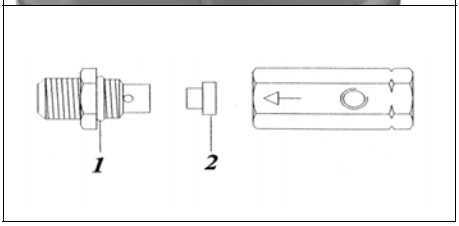
CHECK THE NON RETURN VALVE

If the tank pressure decreases for no apparent reason, it is possible that the non-return valve is leaking. To check, ensure the tank is under pressure and the machine switched OFF,

1. Take off the flexible hose and check if air leaks out from the valve.



2. If so, unscrew the valve from the connection and disassemble it as shown.
3. Clean all the components with a dry cloth and reassemble the valve taking care to place the internal rubber disc(2) as shown.

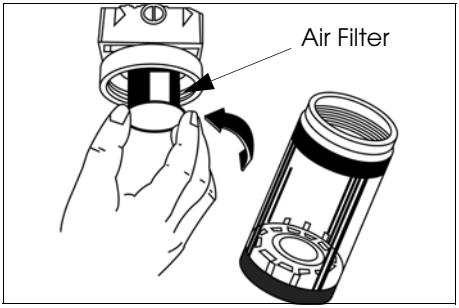


4. Fasten the valve to the connection and join the flexible hose. If the leakage persists, the whole valve must be replaced.

REPLACING THE AIR OUTLET FILTER

NOTE: The compressor must be completely depressurised before carrying out this procedure.

1. Unscrew the cartridge from the air filter assembly.
2. Uncrew and replace the small air filter.

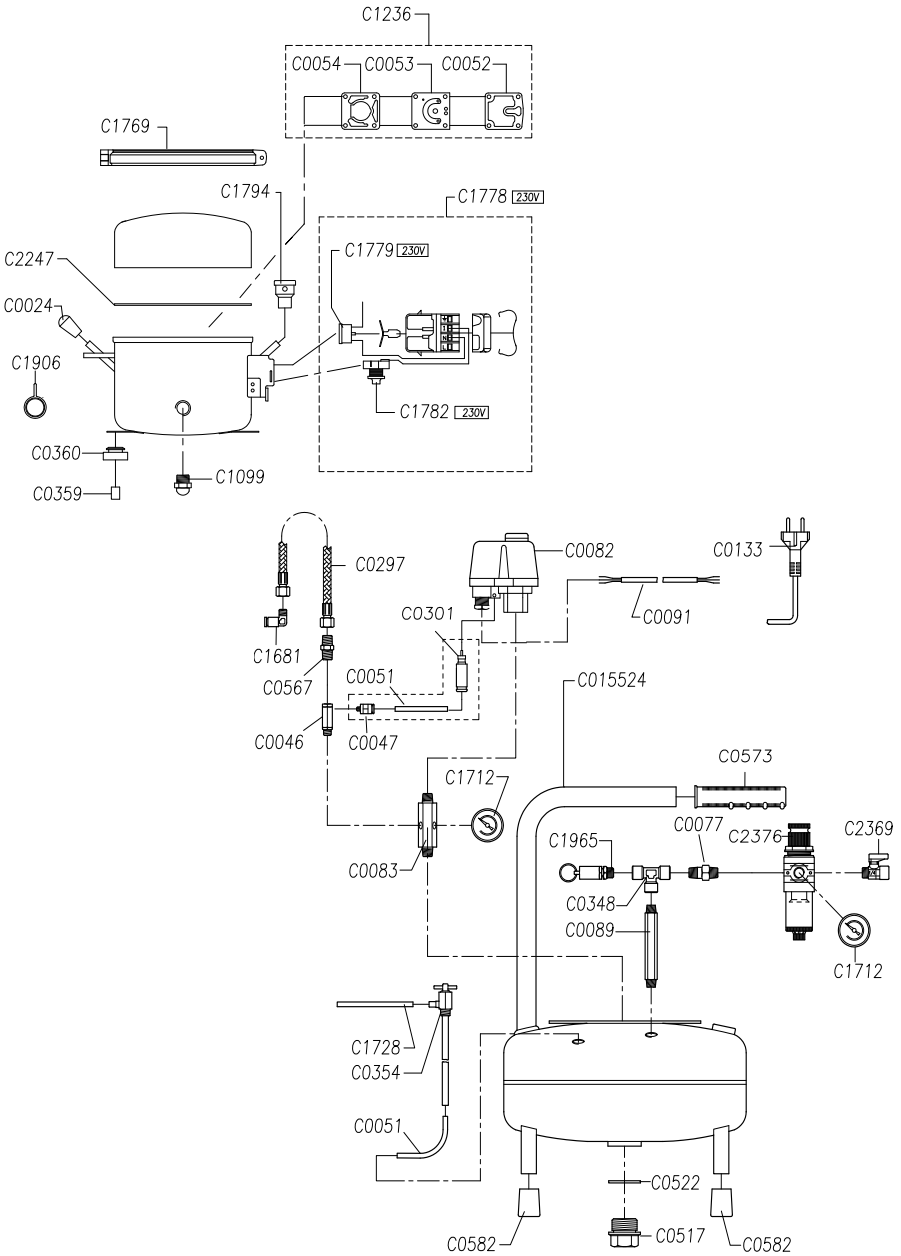


SPECIFICATIONS

Max.Pressure	8 Bar
Air Displacement	0.88 CFM
Receiver Capacity	9L
Fuse Rating	13 Amps
Duty Cycle	50% (15 mins (ON) - 15 mins(OFF))
Part No.	2320865
Dimensions (L x H x W)	330 x 470 x 330 mm
Sound Power Level	40dBA
Weight	18 kg
Compressor Oil	500mL Synthetic Oil
Oil Part No.	3050795

Please note that the details and specifications contained herein, are correct at the time of going to print. CLARKE International reserve the right to change specifications at any time without prior notice.

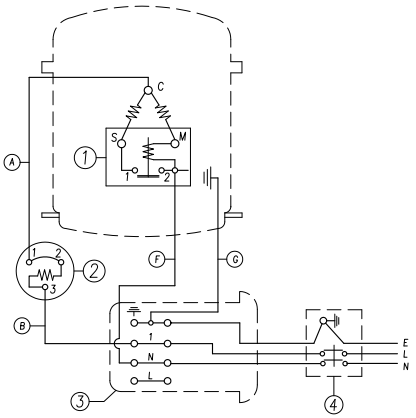
EXPLODED DIAGRAM & PARTS LIST



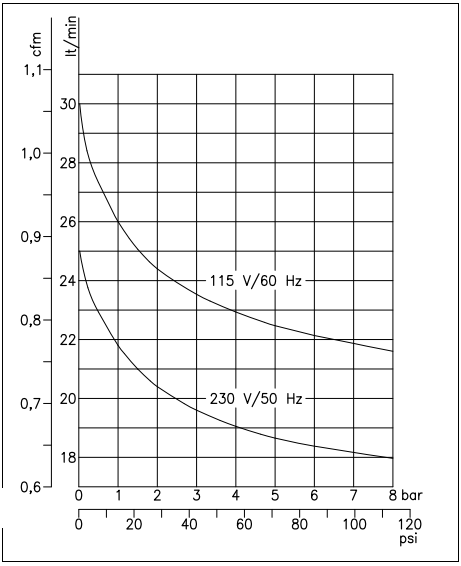
EXPLODED DIAGRAM & PARTS LIST

	DESCRIPTION
C0024	Rubber Oil Plug Ø8
C0052	Head Gasket
C0053	Valve Plate E88 With Valve
C0054	Cylinder Gasket
C0359	Spacer E 59-E 88
C0360	Rubber Grommet E 59 -E 88
C1099	Oil Level Glass 1/2"
C1236	Kit Valve Plate+Gasket E88
C1769	Kit Holding Band L55-L88
C1778	Kit Terminal Box L88 (230V)
C1779	Overload Protector L88 (230V)
C1782	Start Relay L88 (230V)
C1794	Kit Intake Filter
C2247	O' Ring
C1906	Motor Protection Ring
C0046	Non Return Valve M-F 1/8"
C0047	Quick Coupling M5XØ6
C0051	Rylsan Hose Ø4/6
C0077	Swivel Connector M1/4
C0082	Pressure 1 WAY
C0083	Connection M 1/4 L=80
C0089	Nipple 1/4" L=95
C0091	Electric Cable MM 500
C0348	"T" Connection F-F-F 1/4"
C0133	Electric Cable 3X0.75 L.2500 (230V)
C015524	Tank
C2376	Filter Regulator
C0297	Air Hose
C0301	Exhaust Valve
C0354	Draincock M 1/4 90
C0517	Plug M1"
C0522	Aluminium Washer 1"
C0567	Nipple 1/8"
C0573	Hand Grip
C0582	Black Rubber Support D20
C1681	"L" Connection M 1/8X8

NO	DESCRIPTION
C1712	Gauge D40 1/8 0-12 BAR
C1728	Hose
C1965	Valve
C2369	Outlet tap



PUMP ELECTRICAL DIAGRAM



DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We declare that this product complies with the following directives:

89/336/EEC	*Electromagnetic Compatibility directive, as amended.*
73/23/EEC	*Low Voltage Equipment directive, amended by 93/68/EEC.*
98/37/ EC	*Machinery Directive.*
87/404/EEC	*Simple Pressure Vessels*
97/23/EC	*Pressure Equipment*

The Following Standards have been applied to the product:

BS EN 10121-/96	*BS EN 292-1/91*
BS EN 292-2/91	*BS EN 60204-1/98*
BS EN 55014-1:2001	*EN 61000-3-2:2001*

The technical documentation required to demonstrate that the products meet the requirements of the Low Voltage Equipment directive has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: **2003**

Product Description: Silent Air Compressor

Model number(s): SHHHAIR 30/9

Serial / batch Number: Current Manufacture.

Date of Issue: 01/05/2008

Signed

A.C. AIKEN

Senior Manager Clarke International.

SHHHAIR-30-90 -RV1.doc

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NOTES

NOTES

NOTES

A SELECTION FROM THE VAST RANGE OF

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